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ONE 120.4 DSP

4-channel AB class amplifier with Digital Signal Processor

[Rev 2.0 – 2012.04]

CEA-2006-A SPECIFICATIONS

POWER RATING:

120 Watt per channel @ 4 Ohm < 1% THD+N

SN RATIO:

>67 dBA (reference: 1 Watt into 4 Ohm)

MOS SPECIFICATIONS (Tcase = 25 °C / 4 Ohm stereo / 0.2V input level @ 14.4 Volt if not otherwise specified)

TARGET POWERS:

120 Watt x 4 - ST @ 4 Ohm

165 Watt x 4 - ST @ 2 Ohm

330 Watt x 2 - BTL @ 4 Ohm

EFFECTIVE POWERS:

120 Watt (92 Watt @12V6) x 4

168 Watt (129 Watt @12V6) x 4

336 Watt (258 Watt @12V6) x 2

@ 4 Ohm / ST mode / 1% THD / 1KHz - **51.9 A** ($\eta = 64.1 \%$)

@ 2 Ohm / ST mode / 1% THD / 1KHz - **87.2 A** ($\eta = 53.5 \%$)

@ 4 Ohm / BTL mode / 1% THD / 1KHz - **87.2 A** ($\eta = 53.5 \%$)

THD @ 4 Ohm / ST mode:

< **0.20 %** (1KHz / 90% Power rating ref)

THD @ 2 Ohm / ST mode:

< **0.20 %** (1KHz / 90% Power rating ref)

DIM @ 4 Ohm / ST mode:

< ---- % (Power rating ref)

DIM @ 2 Ohm / ST mode:

< ---- % (Power rating ref)

DC-DC converter typology:

Unregulated

Conversion frequency:

45 KHz ($\pm 6 \%$)

Absolute maximum operation supply voltage range:

10.5 V ÷ 15 V

Recommended operation supply voltage range:

11 V ÷ 14.4 V

Power-on/Power-off Voltage Threshold:

9.5 V / 8.0 V

Mute delay time:

3 secs

Secondary voltages (Amp. / Driver / Pre.):

$\pm 36.7 \text{ V} / \pm 13.6 \text{ V} / \pm 14.9 \text{ V}$

Max output offset voltage (each channel):

$\pm 15 \text{ mV}$

Standby current:

< 0.1 mA (typical)

Quiescent consumption @ 12V6 / 14V4:

0.82 A / 0.88 A (no idle current regulation)

Idle current regulation @ 14V4 (no signal):

0.05 A (each trimmer)

Quiescent consumption @ 12V6 / 14V4:

0.90 A / 0.98 A (with idle current set)

Thermal protection consumption:

$\approx 0.2 \text{ A}$

Battery ground vs secondary ground decoupling:

1 KOhm

Body ground vs battery ground decoupling:

68 Ohm

Bandwidth (-3dB ÷ 1 Watt):

< 5 Hz ÷ 20 KHz

Input sensitivity (Power rating ref):

0.28 Vrms ÷ 5.7 Vrms [Low Level] / **0.8 Vrms ÷ 16 Vrms** [High Level]

Input impedance @ 1 KHz (STEREO input):

11 Kohm [Low Level] / **47R** [High Level]

Input capacitance @ 1 KHz (STEREO input):

10 nF [High Level]

Input ground decoupling:

47R [Low Level] / **50 Kohm** [High Level]

S/N ratio (AP filter 10 Hz - 500 KHz) – Power rating ref:

68 dB

S/N ratio (AP filter 10 Hz - 22 KHz) – Power rating ref:

87 dB ("A" weighted)

Eq. Input noise (AP filter 10 Hz - 500 KHz):

118 uV

Eq. Input noise (AP filter 10 Hz - 22 KHz):

13.3 uV ("A" weighted)

Channel separation @ 100Hz / 1KHz / 10KHz – 10 Watt ref:

61 dB / 61 dB / 56 dB

Features:

DSP onboard (configurable with PC)

AUX-IN autosensing mode

High Low Adapter Front & Rear [auto switch-on (BTL/SE)]

88 °C ($\pm 5^\circ \text{C}$)

50 °C ($\pm 5^\circ \text{C}$)

Thermal cutoff Threshold:

Cooling Fan Temperature Threshold:

Damping factor @ 100 Hz - 10 Watt ref (Right / Left):

104 / 128 [Front] - **100 / 118** [Rear]

Damping factor @ 1 KHz - 10 Watt ref (Right / Left):

104 / 131 [Front] - **97 / 118** [Rear]

Damping factor @ 10 KHz - 10 Watt ref (Right / Left):

89 / 109 [Front] - **95 / 85** [Rear]

Load drive limitations (*):

2 Ohm / 4 Ohm (Stereo / Bridged)

Suggested fuse:

2x40 A (onboard)

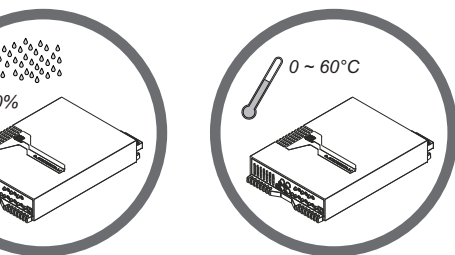
(*) VERY IMPORTANT NOTE - READ CAREFULLY

4 Ohm ST or 8 Ohm BTL – CONTINUOUS SINEWAVE SIGNAL – pure resistive load or speaker load

2 Ohm ST or 4 Ohm BTL – MUSICAL SIGNAL – pure resistive load or speaker load



WARNING!
DISCONNECT THE BATTERY LEADS
BEFORE INSTALLATION, MAINTENANCE
OR REMOVAL.



WARNING! CAUTION:

GEBRAUCHEN SIE DAS PRODUKT NICHT SO, DASS IHRE AUFMERKSAMKEIT VOM FAHREN ABGELENKT IST. Jede Handlung, die kontinuierliche Aufmerksamkeit verlangt, muss im stehenden Zustand des Fahrzeugs vollzogen werden. Beim Ausführen solcher Handlungen stoppen sie das Fahrzeug immer in einer sicheren Zone. Nichteinhaltung kann Unfälle verursachen.

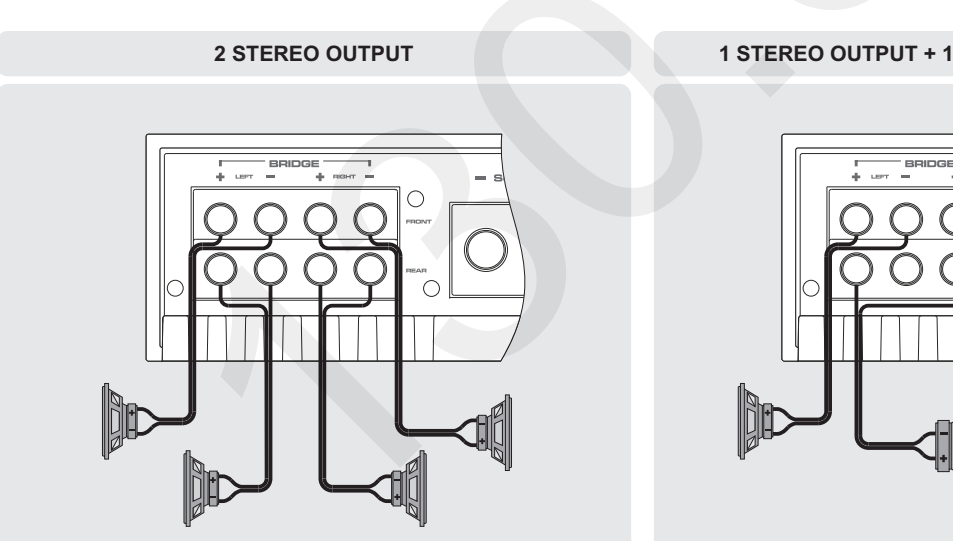
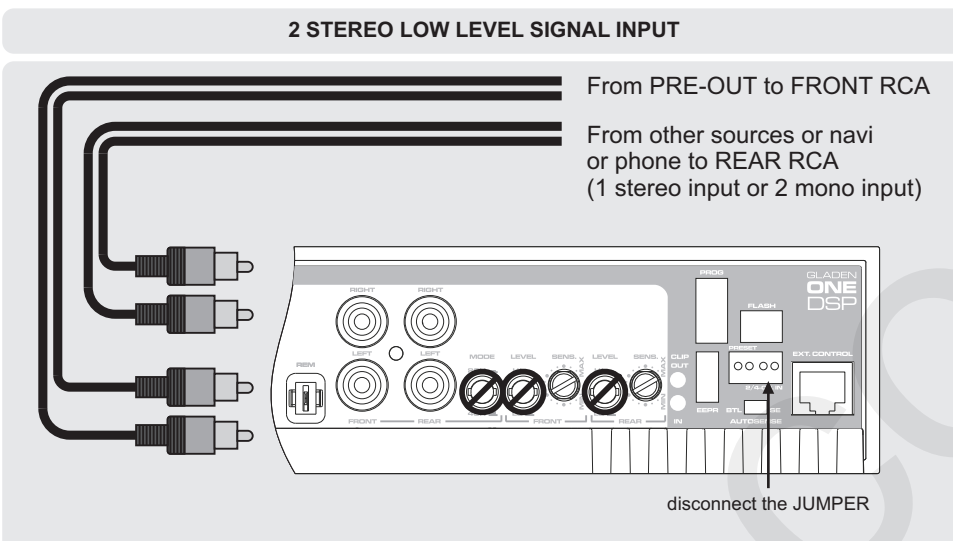
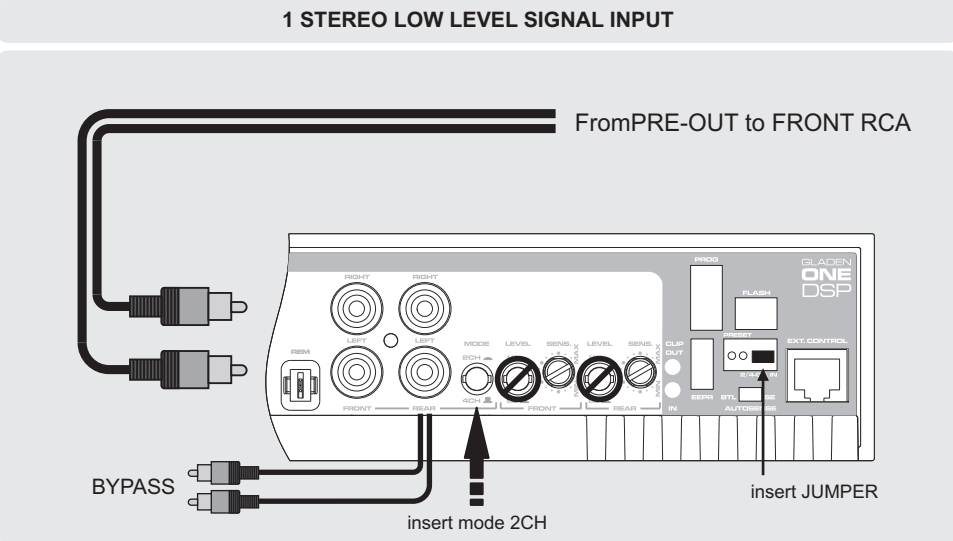
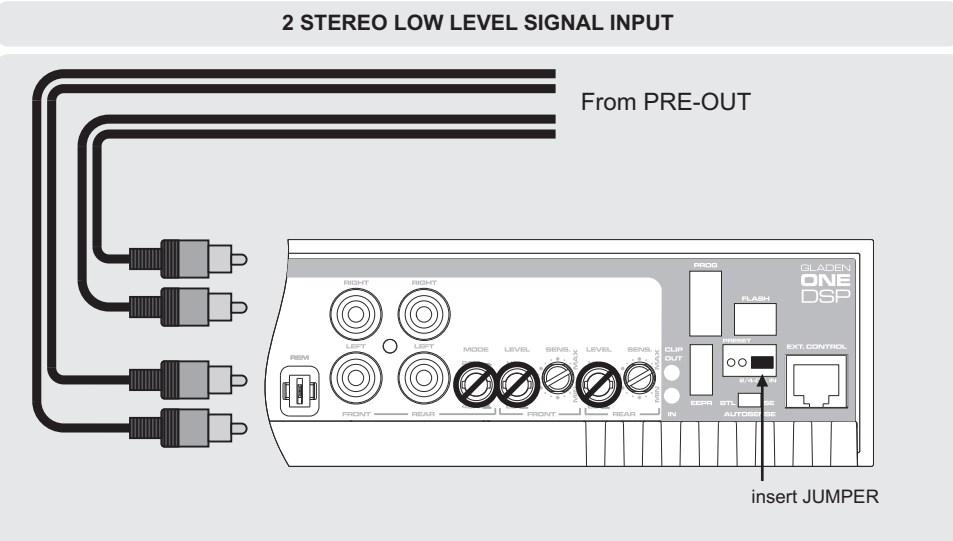
GEBRAUCHEN SIE DAS PRODUKT NICHT SO, DASS IHRE AUFMERKSAMKEIT VOM FAHREN ABGELENKT IST. Jede Handlung, die kontinuierliche Aufmerksamkeit verlangt, muss im stehenden Zustand des Fahrzeugs vollzogen werden. Beim Ausführen solcher Handlungen stoppen sie das Fahrzeug immer in einer sicheren Zone. Nichteinhaltung kann Unfälle verursachen.

HALTEN SIE DIE LAUTSTARKE AUF EINEM SOLCHEN LEVEL, DER IHNEN ERLAUBT EXTERNE GERÄUSCHE WÄHREND DES FAHRENS ZU HÖREN. Überhöhte Lautstärkepegel, welche die Sirene von Notfallfahrzeugen, das Geräusch von Eisenbahnen etc. übertönen, können gefährlich sein und Unfälle verursachen. Außerdem kann das sehr laute Musikhören innerhalb eines Fahrzeugs das Gehör schädigen.

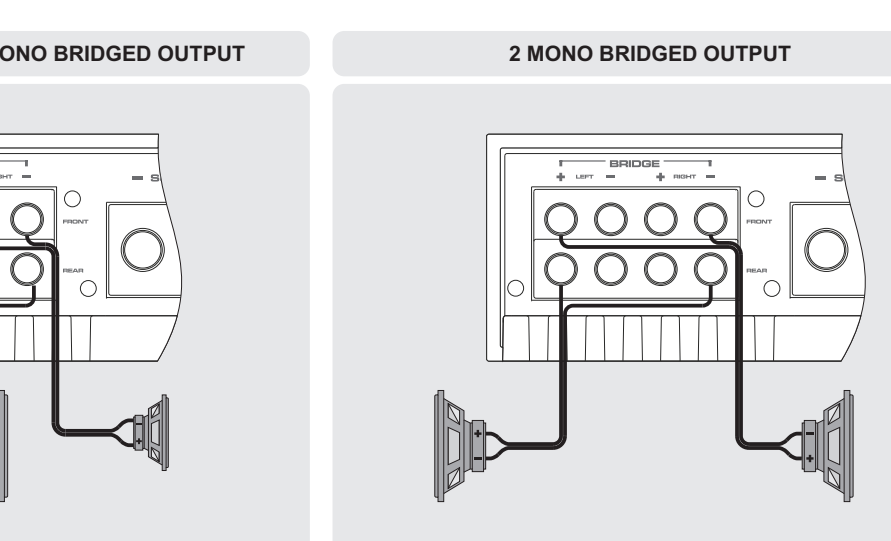
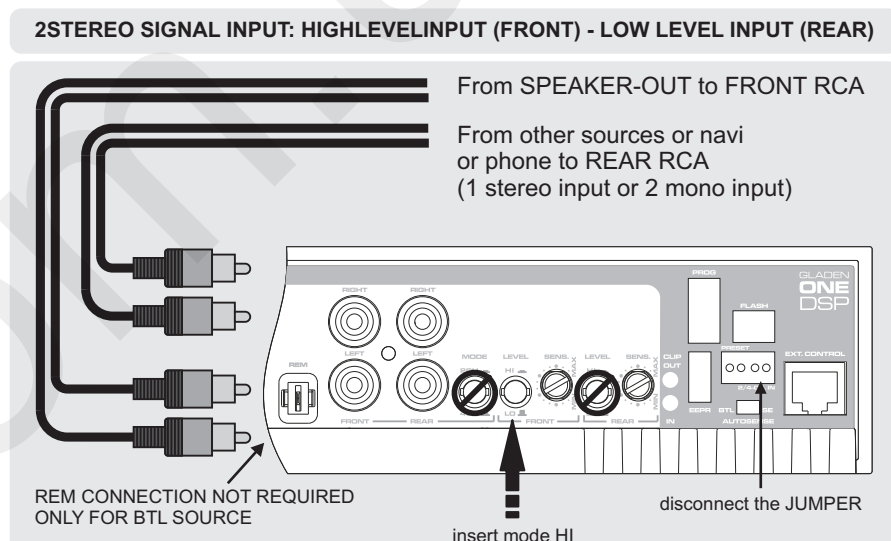
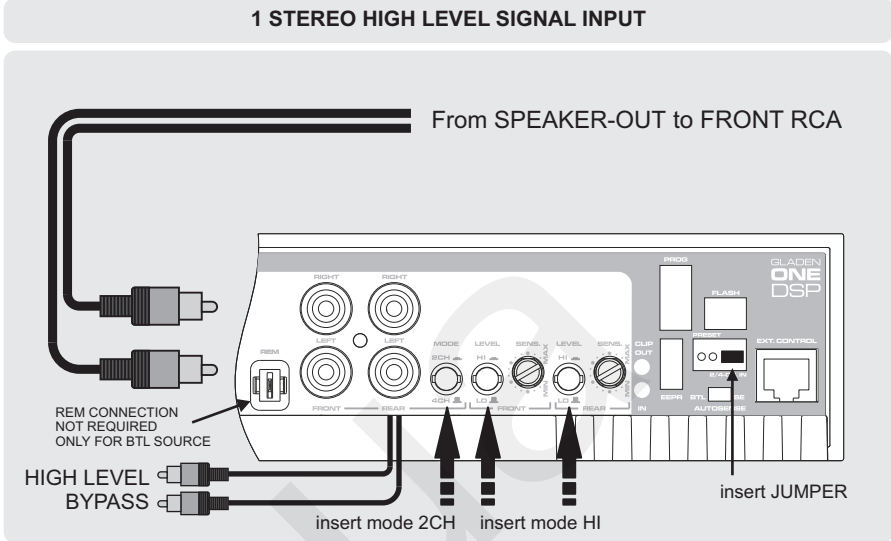
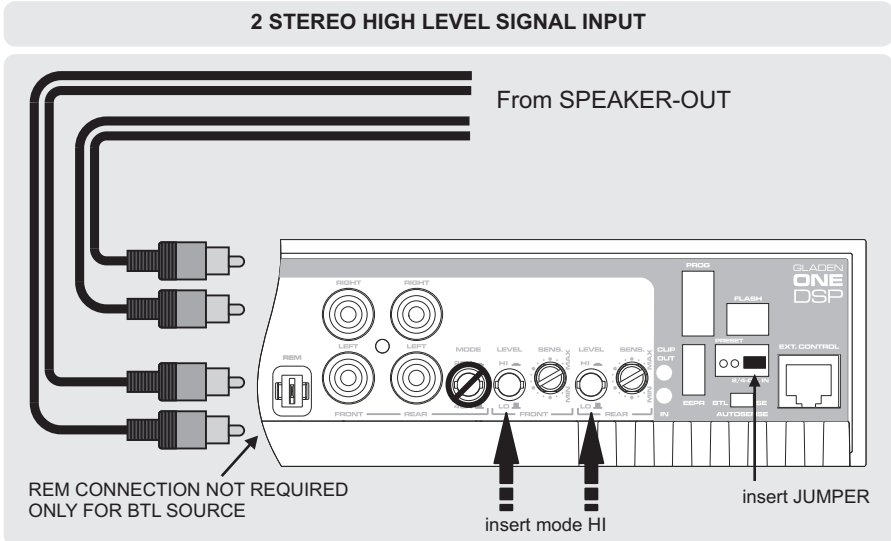
vehicles, rail crossings, etc., may be dangerous and cause accidents. Furthermore, listening to audio at high volume inside a vehicle may cause damage to your hearing.

CONNECTING INPUT

CONNECTING SPEAKERS



MINIMUM CAPABILITY IMPEDANCE: 2 OHM IN STEREO MODE; 4 OHM IN BRIDGE MODE



USE THIS SWITCH for this configuration

DO NOT USE THIS for this configuration

IMPORTANT: CAREFULLY READ THIS MANUAL TO FAMILIARIZE YOURSELF WITH ALL THE CONTROLS AND FUNCTIONS OF THIS PRODUCT. FOLLOW ALL NOTICES TO ENSURE THE SAFETY OF THOSE INSTALLING AND USING THE PRODUCT.

WICHTIG: LESEN SIE DIESE GEBRAUCHSANLEITUNG GENAU DURCH, UM SICH SELBST MIT ALL DEN BEDIENTEILEN UND FUNKTIONEN DIESES PRODUKTS VERTRAUT ZU MACHEN. BEFOLGEN SIE ALLE HINWEISE, DAMIT DIE SICHERHEIT DER INSTALLATION UND DES GEBRAUCHS DES PRODUKTS GEWÄHRLEISTET IST.

IMPORTANTE: LEGGETE ATTENTAMENTE QUESTO LIBRETTO D'USO AL FINE DI FAMILIARIZZARE CON TUTTI I CONTROLLI E LE FUNZIONI, E INDISPENSABILE OSSERVARNE TUTTE LE INDICAZIONI, AFFINCHÉ POSSA ESSERE GARANTITA LA SICUREZZA DI CHI OPERA L'INSTALLAZIONE E DI CHI UTILIZZA IL PRODOTTO.

MANUALE D'USO
GARANZIA
SICUREZZA
GEBRAUCHSANWEISUNG
SICHERHEITSHINWEISE
GARANTIEKARTE
OWNER'S MANUAL
WARNINGS
WARRANTY CARD

moscow
GLADEN AUDIO EUROPE

ITA, DEUT, ENG

GLADEN ONE 4 - channel amplifier DSP

GARANZIA, GARANTIEKARTE, WARRANTY

CONDIZIONI DI GARANZIA
RESTITUIRE, ASSIEME AL PRODOTTO DA RIPARARE, IL PRESENTE FOGLIO COMPILATO IN
TUTTE LE SUE PARTI CON ALLEGATO IL DOCUMENTO FISCALE D'ACQUISTO.

GARANTIEBEDINGUNGEN
DIE GARANTIEKARTE BITTE VOLLSTÄNDIG AUSGEFÜLLT ZUSAMMEN MIT
EINER FEHLERBESCHREIBUNG UND DER RECHNUNG EINSCHICKEN.

WARRANTY CONDITIONS
COMPLETE ALL SECTIONS AND RETURN THIS DOCUMENT ALONG WITH A) THE PRODUCT TO REPAIR AND B) THE ORIGINAL DATED PURCHASE RECEIPT

Client	Authorized Dealer	Product
Name		Model
Address		Serial Number
e-mail & Phone		

MOSCONI garantisce i prodotti MOSCONI per 24 mesi dalla data di acquisto dichiarata nel presente riquadro e nel documento fiscale di acquisto (scontrino o fattura da allegare alla presente in caso di restituzione per riparazione al rivenditore). Il numero di matricola del presente certificato, deve corrispondere a quello stampigliato sull'apparecchio da riparare. MOS non è responsabile di eventuali danni causati a persone che usano impropriamente i prodotti MOSCONI o a cose a questi collegate.

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MOS extends a warranty to MOSCONI products for 24 months from the date of the original purchase as declared in the appropriate box and in the original purchase receipt. Enclose the dated purchase receipt when sending the product for return or repair to the authorized dealer.

The serial number of this certificate must correspond to the one stamped on the returned product.

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